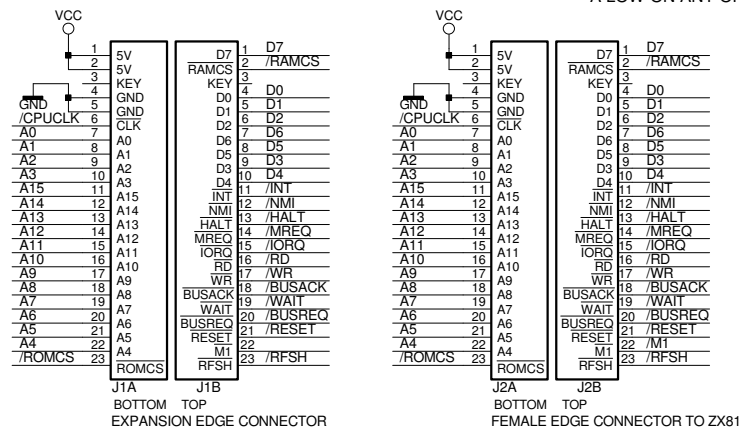


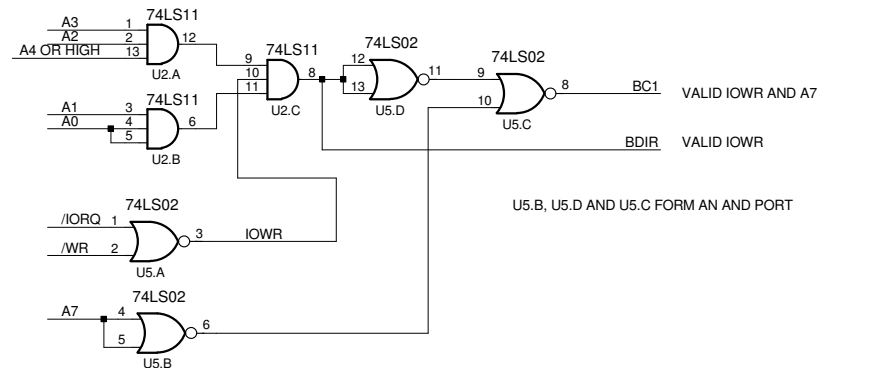
SCHEMATIC FOR "ZON X-81" AND "ZON X" PSG BOARD FOR THE ZX81

A LOW ON ANY OF THE ADDRESS LINES A0 TO A3 INDICATES THE SELECTION OF ANOTHER ZX81 PERIPHERAL SO PSG SHOULD NOT BE SELECTED
A LOW ON ANY OF THE ADDRESS LINES A0 TO A4 INDICATES THE SELECTION OF ANOTHER SPECTRUM PERIPHERAL SO PSG SHOULD NOT BE SELECTED



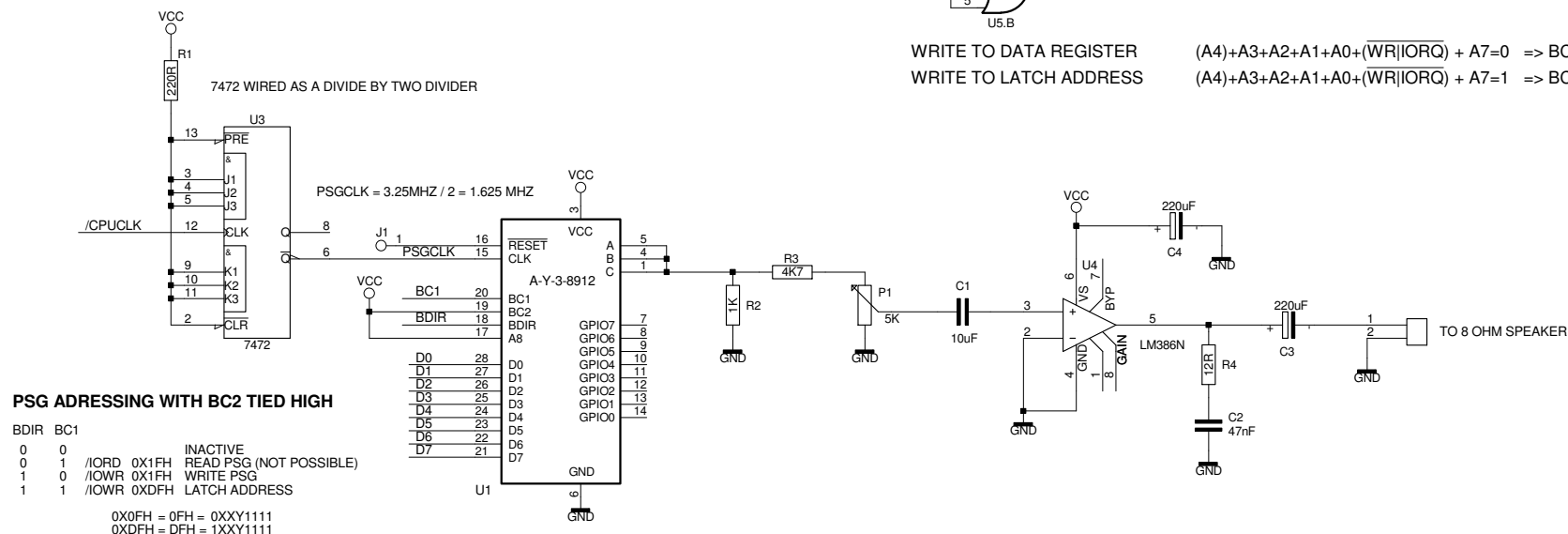
THE ZON X-81 HAD PIN 13 OF U2.A HIGH, THE ZON X BOARD CHANGED THAT TO A CONNECTION TO A14

(ORDER OF GATES AND ORDER OF INPUTS OF GATES NOT CHECKED WITH ORIGINAL ZON X)



WRITE TO DATA REGISTER

WRITE TO LATCH ADDRESS

$$(A4)+A3+A2+A1+A0+(\overline{WR||ORQ}) + A7=0 \Rightarrow BC1=0 \text{ \& \& } BDIR=1$$
$$(A4)+A3+A2+A1+A0+(\overline{WR||ORQ}) + A7=1 \Rightarrow BC1=0 \text{ \& \& BDIR}=1$$


THE EARLIER ZON X-81 USED A DECODER WHERE A4 (Y) NEEDED TO BE 0 WHICH IS INCOMPATIBLE WITH A SPECTRUM
THE LATER "ZON X" ADDED A4 TO THE 5-INPUT AND PORT TO ADD SPECTRUM COMPATIBILITY.

1FH ACTUALLY CAN BE ANY ADDRESS FROM THE RANGE 1FH, 3FH, 5FH OR 7FH AND FOR THE ZON X-81 ALSO 0FH, 4FH AND 6FH
DFH ACTUALLY CAN BE ANY ADDRESS FROM THE RANGE 9FH,BFH, DFH OR FFH AND FOR THE ZON X-81 ALSO 8FH, AFH,CFH AND EFH

REV: 2.1	DATE: 21/06/2016	ENG: MAHJONGG
PROJECT: ZON X-81 PSG FOR ZX81 & SPECTRUM		
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COUNTRY: NETHERLANDS		
INITIAL	14/06/2016	PAGE: 1 OF: 1